Micunt Isreddy

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OBJECTIVE

Seeking a full time position in computer software or embedded systems starting Spring 2016

EDUCATION

***G*eorgia Institute of Technology**, Atlanta, GA *Fall 2015*
MS in Electrical and Computer Engineering
Specialization: Computer Systems and Software
GPA: 4.0

National Institute of Technology Karnataka(NITK), India *May 2013*
Bachelor of Technology in Electronics and Communication Engineering
CGPA: 8.56/10

WORK EXPERIENCE

Pebble Technology *May 2015 – Aug 2015*
Embedded Developer Intern
- Development of the core OS which runs on the Pebble Time smartwatch.
- Worked on various components of the watch including Bluetooth subsystem and the UX elements.
- Implemented and tested features and took part in the entire product development lifecycle.

Cisco Systems India Private Limited *Aug 2013 – July 2014*
Software Engineer
-Member of the Integrated Services Routing team under the Enterprise Networking Group (ENG)
-Coded drivers and protocol backend of ISR4400 and ISR3900 enterprise level routers and development of IOT platform

Central Research Laboratory, Bharat Electronics Limited *May 2012 – July 2012*
Communication Engineering Intern
-Development and testing of Software Defined Radios (SDR) software and drivers

TECHNICAL SKILLS

Computer Architecture: Advanced Computer Architecture,Parallel and Distributed Architectures Microcontrollers, Digital System Design, Data Structures, Algorithms, Digital Electronics, Operating systems
Control systems: Control of Mobile Robots, Linear Control Systems, Linear Systems and Signals, Mechatronics
Communication: Digital and Analog Communication, Adhoc and Wireless Sensor Networks, Mobile Networks, Computer Networks, Interconnecting Network Devices (Cisco Systems), Cisco Internetwork OS (IOS) programming
Software: MATLAB, NI LabView, Arduino IDE, IAR Embedded Workbench, Eagle CAD, Google Sketchup, GDB, Git
Programming : C, C++, Python,VHDL, Assembly, Javascript, MPI, Pthreads, OpenGL, CUDA
Instrumentation: Oscilloscope, digital multimeter, function generator, Hall effect sensors
RC Equipment: ESCs, KK2.0 controller, quad/tricopter frame building, balsa frame building, Tx/Rx configuration

PROJECTS AND PUBLICATIONS

CO-CURRICULAR PROJECTS:

Wireless Sensor Assisted Disaster Search and Detection Robot *Aug 2012 – Apr 2013*

- Placed **First** in the finals of the Texas Instruments India Analog Design Challenge 2012
- Consisted of a Zigbee wireless sensor net and a Wifi connected robot controlled by a Beaglebone
- Published in IEEExplore in Texas Instruments India Educators' Conference (DOI: 10.1109/TIIEC.2013.10)

UNDERGRADUATE THESIS: *July 2012 – July 2013*

Low Power Off-line light emitting diode (LED) driver with long life time

- Isolated Zeta topology using dedicated switching ASIC (TI TPS92210)
- Designed for high frequency switching and small non-electrolytic capacitors to extend lifetime
- Was the **only Indian team** in the finals of IEEE Future Energy Challenge 2013, held in Hangzhou, China in July 2013

GRADUATE PROJECTS : *Aug 2014 – May 2015*

- **Programming projects**: Mandelbrot generator implemented using OpenGL and CUDA, RSA Algorithm using GNU multiprecision library, OpenGL animation, 2D DFT calculation.
- **Computer Architecture Projects**: Tomasulo Algorithm Pipelined Processor Simulator, Cache Simulator and Cache Coherence Simulator
- **Operating Systems projects**: Lightweight Recoverable Virtual Memory, RPC-based Proxy Server, MPI/Pthread Barriers and Custom Pthread implementation.
- **Mechatronics Term Project**: Intelligent Safety Vest for Bikers.